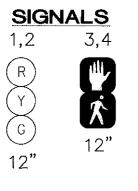


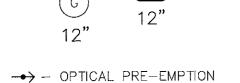
U.S. 40 WEST (WEST FRANKLIN STREET) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

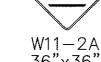
PHASING DIAGRAM 2 3 4

| | _ | | W | W | |
|-----------------------|---------|---------|----------|----------|-----|
| PHASE 2 | G | G | DW | DW | |
| 2 CHANGE | Y | Υ | DW | DW | |
| PHASE 4 | R | R | W | W | 0 |
| 4 PED CLEAR | R | R | FL DW | FL DW | 1 1 |
| 4 CHANGE | R | R | DW | DW | |
| PRE-EMPTION A | G | G | DW | DW | |
| A CHANGE | Y | Y | DW | DW | 4 |
| FLASHING OPERATION | FL Y | FL Y | DARK | DARK | |



DETECTOR EYE





36"x36"

SIGNS

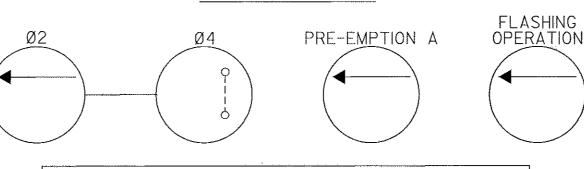
ONE WAY

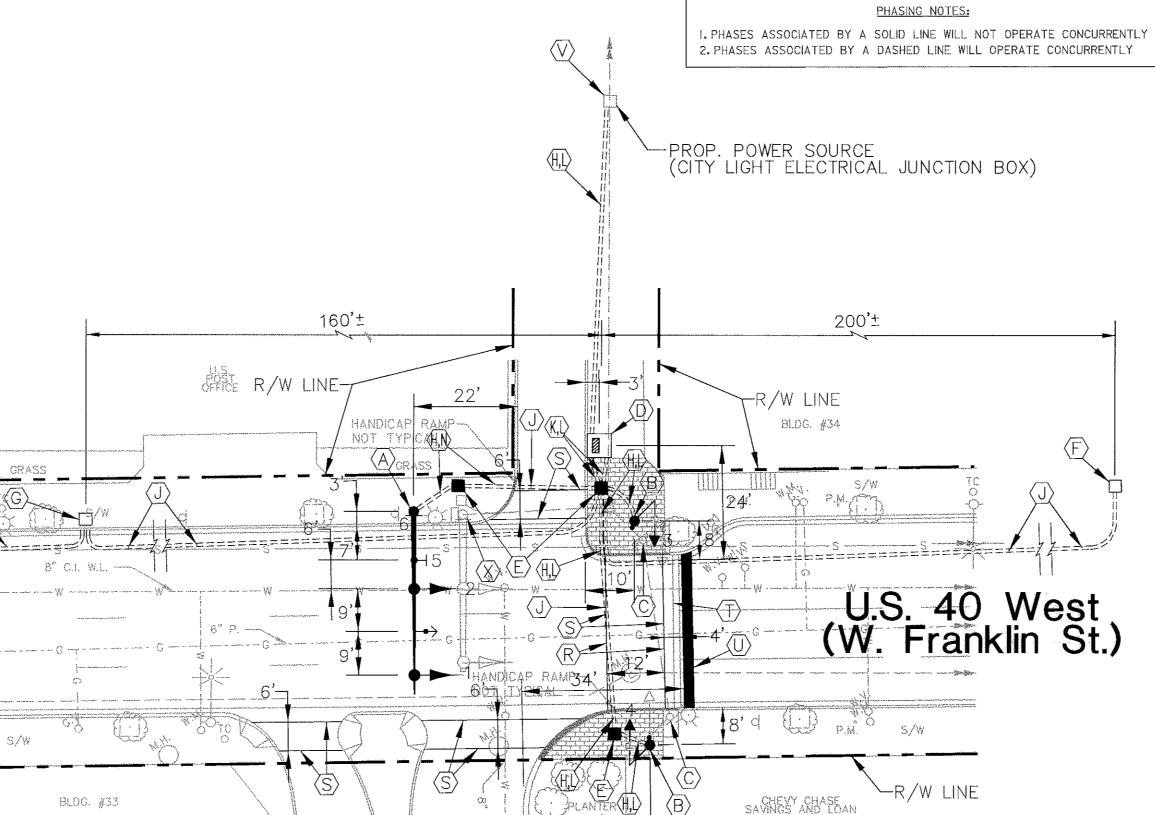
CONSTRUCTION DETAILS

- (A) INSTALL 21' STEEL POLE, 38' MAST ARM, SIGNAL HEADS, SIGN AND OPTICOM DETECTOR (NOTE: 1-2", 90-DEGREE P.V.C. BEND).
- (B) INSTALL 10' STEEL PEDESTAL POLE, PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN (NOTE: 1-2" 90-DEGREE P.V.C. BEND).
- (C) REMOVE EXISTING PEDESTAL POLE, PEDESTRIAN SIGNAL, PUSHBUTTON, SIGN AND FOUNDATION.
- (D) INSTALL BASE MOUNTED CABINET, SIZE #5, AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN (NOTE: 2-4", 90-DEGREE P.V.C. BENDS; AND, 2-2", 90-DEGREE
- (E) INSTALL HANDHOLE.
- $\langle F \rangle$ USE HANDHOLE INSTALLED AS PART OF U.S. 40 WEST (EAST/WEST FRANKLIN ST.) AT NORTH POTOMAC ST. CONSTRUCTION.
- (G) USE HANDHOLE INSTALLED AS PART OF U.S. 40 WEST (WEST FRANKLIN ST.) AT JONATHAN ST. CONSTRUCTION.
- (H) INSTALL 2" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- (J) INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- (K) INSTALL 4" P.V.C. (SCHEDULE 40) ELECTRICAL CONDUIT (TRENCHED).
- (L) REMOVE AND REPLACE EXISTING BRICK SIDEWALK.
- (M) CONDUIT INSTALLED AS PART OF U.S. 40 WEST (WEST FRANKLIN ST.) AT JONATHAN ST. CONSTRUCTION.
- (N) REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK.
- (R) REMOVE EXISTING CROSSWALK LINES.
- (S) INSTALL 12" SOLID WHITE LINE FOR CROSSWALKS.
- (T) REMOVE EXISTING STOP BAR.
- (U) INSTALL 24" SOLID WHITE LINE.
- (V) COIL 10' OF CABLE AT ELECTRICAL JUNCTION BOX. (COORDINATE CONNECTION DETAILS WITH THE CITY LIGHT DEPARTMENT).
- (X) REMOVE EXISTING STEEL POLE, MAST ARM, SIGNALS, SIGNS, CABINET, CONTROLLER AND FOUNDATION.

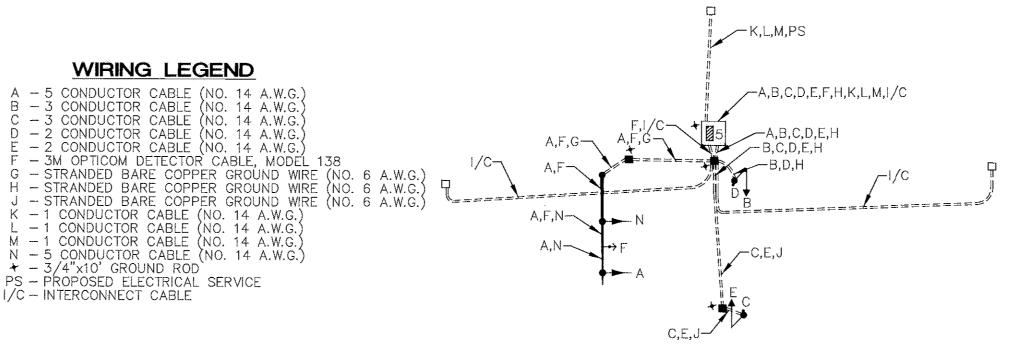
UTILITY LEGEND GAS MAIN ----- W ----- WATER MAIN ---- s ---- SEWER MAIN —— E —— E —— ELECTRIC CABLES TELEPHONE CABLES ---- A ---- AERIAL CABLES

NEMA PHASING





WIRING DIAGRAM



REVISIONS

INTERSECTION DESCRIPTION

GENERAL

THIS INTERSECTION IS U.S. 40 WEST (WEST FRANKLIN ST.) AND THE PEDESTRIAN CROSSING AT THE U.S. POST OFFICE. CONSTRUCTION AT THIS INTERSECTION INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AND INTERCONNECTION WITH THE OTHER SIGNALIZED INTERSECTIONS IN THE NEW CITY-WIDE SYSTEM. IT IS ASSUMED THAT U.S. 40 WEST (WEST FRANKLIN ST.) RUNS IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA TWO (2) PHASE PRE-TIMED MODE. WESTBOUND U.S. 40 WEST (WEST FRANKLIN ST.) AND THE PEDESTRIAN CROSSING WILL OPERATE IN SEPARATE PHASES. THE PEDESTRIAN SIGNALS WILL OPERATE UPON PEDESTRIAN ACTUATION.

PRE-EMPTION ON WESTBOUND U.S. 40 WEST (WEST FRANKLIN ST.) WILL CALL PRE-EMPTION A

A NEW EIGHT PHASE FULLY ACTUATED CONTROLLER WITH TELEMETRY MODULE. AND PRE-EMPTION HOUSED IN A GROUND MOUNTED CABINET WILL BE INSTALLED

A/E GROUP, INC.

ENGINEERS • PLANNERS 181 E. Main Street Westminster, Maryland 21158 A/E Job No. 95-289

CHIEF, SIGNAL DESIGN SECTION DRAWN BY: M. GESELL ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

APPROVALS

MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

STPG-218-1(7)E

WA9535/85

TRAFFIC ENGINEERING DESIGN DIVISION LOG MI. 21W04036.02

QUANTITY UNIT

1 EA

2 EA

US 40 West (West Franklin St.) at U.S. Post Office

SHEET NO. 3678 8 OF 66

813 FLAT SHEET ALUMINUM SIGNS CONSISTING OF: - 1 EACH R6-1L (36" X 12")-POLE MOUNT - 1 EACH W11-2a (36" X 36")-MAST ARM MOUNT B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. **SPECIFICATION** QUANTITY UNIT SECTION DESCRIPTION 205 TEST PIT EXCAVATION REMOVAL OF EXISTING SIDEWALK CY 206 12 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE LF SP 555 24 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE 100 REMOVE EXISTING PAVEMENT MARKINGS-ANY WIDTH 610 4 INCH CONCRETE SIDEWALK SP REMOVE AND REPLACE EXISTING BRICK SIDEWALK INSTALL CONTROLLER AND CABINET-BASE MOUNT 813 INSTALL OVERHEAD SIGN EΑ 12 INCH 1 WAY 3 SECTION (R, Y, G) SIGNAL HEAD HAVING PROPER ADJUSTABLE MAST ARM BRACKET, AND TUNNEL VISORS-PAINTED BLACK FURNISH AND INSTALL 12 INCH 1 WAY 2 SECTION PEDESTRIAN SIGNAL HEAD-PEDESTAL TOP MOUNT-PAINTED BLACK FURNISH AND INSTALL OPTICOM DETECTOR EYE-MODEL 521 FURNISH AND INSTALL ELECTRICAL HANDHOLE 811 FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION 175 FURNISH AND INSTALL 2" SCHEDULE 40 RIGID PVC CONDUIT-TRENCHED 805 FURNISH AND INSTALL 4" SCHEDULE 40 RIGID PVC CONDUIT-TRENCHED 805 FURNISH AND INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED 807 FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT 817 FURNISH AND INSTALL PUSHBUTTON AND SIGN FURNISH AND INSTALL 21-FOOT STEEL POLE WITH A SINGLE 38-FOOT MAST ARM-PAINTED GREEN SP CUT, CLEAN AND CAP TRAFFIC SIGNAL 1 EA STRUCTURE 1 EA SP AS-BUILT FOR TRAFFIC SIGNAL EΑ 804 FURNISH AND INSTALL GROUND ROD-3/4 INCH DIAMETER X 10-FOOT LENGTH 175 810 FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE FURNISH AND INSTALL ELECTRICAL CABLE-1 CONDUCTOR (NO. 4 AWG - THHN/THWN) FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR (NO 14 AWG) FURNISH AND INSTALL ELECTRICAL CABLE-150 3 CONDUCTOR (NO 14 AWG) 175 FURNISH AND INSTALL ELECTRICAL CABLE— 810 5 CONDUCTOR (NO 14 AWG) FURNISH AND INSTALL 10-FOOT BREAKAWAY PEDESTAL POLE-PAINTED GREEN FURNISH AND INSTALL OPTICOM M-138 810 DETECTOR CABLE REMOVE AND DISPOSE OF EXISTING FOUNDATION 12" BELOW GRADE DELIVERY OF SALVAGED EQUIPMENT REMOVE AND DISPOSE OF EXISTING EQUIPMENT REMOVAL OF EXISTING SIGNAL EQUIPMENT TO

NO. SHEETS

PROJ. NO

MD. |STPG-218-1(7)E| 8 |

DESCRIPTION

LESS DETECTION EQUIPMENT WITH

8 PHASE ASC II CONTROLLER WITH

BASE MOUNTED LOCAL CABINET (SIZE 5)

TELEMETRY AND OPTICOM PRE-EMPTION MODULE

REGION NO

EQUIPMENT LISTS

SPECIFICATION

SP

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

QUANTITY UNIT SECTION

1 EA

NOTE: EXISTING RIGHT-OF-WAY BASED ON INFORMATION PROVIDED BY THE CITY OF HAGERSTOWN.

F.A.P. NO.

S.H.A. NO.

J. LAWRENCE

05/30/97

1" = 20'

CHK. BY:

DATE:

SCALE:

COUNTY: WASHINGTON

BE SALVAGED

CONTROLLER AND CABINET

PEDESTAL POLE AND BASE

NOTE: ALL EQUIPMENT AND/OR MATERIALS TO BE REMOVED BY THE CONTRACTOR, BUT

NOT LISTED BELOW, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.